CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

IAS-ANZ ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MY/W.No.12/2019-20 Date : 23.11.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.

Agency : **Sri. M. Yogesh (M/s. Professional global infrastructure privited limited),** Bangalore.

Name of Work : Restoration of road cut portion done by BWSSB in Abbigere village F Bus stop surrounding area in ward no.12, Shettyhalli sub division , PKG.01 , BBMP, Bangalore.

Date of Testing : 23.11.2019

Material : Stone Dust

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	71	7.10	7.10	92.9	90-100
2.36	142	14.20	21.30	78.7	75-100
1.18	158	15.80	37.10	62.9	55-90
600 Micron	222	22.20	59.30	40.7	35-59
300 Micron	202	20.20	79.50	20.5	8-30
150 Micron	141	14.10	93.60	6.4	0-10

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The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CQCE/BBMP/MY/W.No.12/2019-20 Date: 17.12.2019

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency	**Sri. M. Yogesh** (M/s. Professional global infrastructure privited limited), Bangalore.
Name of the Work	Restoration of road cut portion done by BWSSB in Abbigere village F Bus stop surrounding area in ward no.12, Shettyhalli sub division , PKG.01 , BBMP, Bangalore.
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Open Graded Premix surface
Date of Testing	17.12.2019

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	298	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	22.66	23.00	22.83

Comments:

→ Maximum allowable Aggregate Impact value for OGPS is 30%

Note:

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Job No.: CQCE/BBMP/MY/W.No.12/2019-20 Date: 23.12.2019

TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Sri. M. Yogesh** (M/s. Professional global infrastructure privited limited), Bangalore.
Name of the work	:	Restoration of road cut portion done by BWSSB in Abbigere village F Bus stop surrounding area in ward no.12, Shettyhalli sub division , PKG.01 , BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	23.12.2019

The results of the tests conducted on the bitumen sample using for Semi Dense Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	84	80 to 100
2	Softening point, ^{0}C	46	Min. 40
3	Ductility at 27^{0}C, cm	100 >	Min. 75
4	Flash Point, ^{0}C	312	Min. 220

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Job No.: CQCE/BBMP/MY/W.No.12/2019-20

23.12.2019

Specific Gravity And Water Absorption Test

IS: 2386 Part III

Client	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
Agency	**Sri. M. Yogesh** (M/s. Professional global infrastructure privited limited), Bangalore.
Name of the Work	Restoration of road cut portion done by BWSSB in Abbigere village F Bus stop surrounding area in ward no.12, Shettyhalli sub division , PKG.01 , BBMP, Bangalore.
Type of Mix	Semi Dense Bituminous Concrete
Source / Location	Hotmix Plant, Bangalore
Date of Testing	23.12.2019

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2019	2021	2023	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1264	1266	1268	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2017	2019	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	752	751	751	
6	Weight of oven dried aggregate	W_4 g	2006	2008	2011	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.668	2.674	2.678	2.673
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.704	2.706	2.707	2.705
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.45%	0.40%	0.45%

Comments:

→ Maximum allowable Aggregate Water absorption value for Semi Dense Bituminous Concrete is 2.0%

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Job No.: CQCE/BBMP/MY/W.No.12/2019-20 24.12.2019

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CLIENT	**Executive Engineer,** Dasarahalli Zone, BBMP, Bangalore.
AGENCY	**Sri. M. Yogesh** (M/s. Professional global infrastructure privited limited), Bangalore.
NAME OF THE WORK	Restoration of road cut portion done by BWSSB in Abbigere village F Bus stop surrounding area in ward no.12, Shettyhalli sub division , PKG.01 , BBMP, Bangalore.
DATE OF TESTING	24.12.2019

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472	472.5
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	28	27.50
7. Bitumen content in %	5.60	5.50
8. Average	5.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	32.5	6.89	6.89	93.11	90-100
4.75	214.3	45.40	52.29	47.71	35-51
2.36	62.31	13.20	65.49	34.51	24-39
1.18	52.6	11.14	76.63	23.37	15-30
0.3	51.43	10.90	87.53	12.47	9-19
0.075	28.5	6.04	93.57	6.43	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	41.23	8.25	8.25	91.75	90-100
4.75	221.7	44.34	52.59	47.41	35-51
2.36	53.8	10.76	63.35	36.65	24-39
1.18	55.12	11.02	74.37	25.63	15-30
0.3	55.8	11.16	85.53	14.47	9-19
0.075	39.65	7.93	93.46	6.54	3-8

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